

Assignment

Date _____ Period _____

Solve each equation by completing the square.

1) $b^2 - 18b - 59 = 4$

2) $x^2 + 18x + 54 = 9$

3) $r^2 - 10r + 29 = 8$

4) $a^2 + 10a - 18 = 6$

5) $n^2 + 8n - 45 = -8$

6) $n^2 - 4n - 28 = -7$

Solve each equation by factoring.

7) $n^2 + 8n = -7$

8) $n^2 + 12 = -7n$

9) $v^2 - 30 = -v$

10) $n^2 - 12 = n$

11) $n^2 = 5n - 6$

12) $x^2 - x = 12$

Solve each equation by taking square roots.

13) $8n^2 + 2 = 642$

14) $8p^2 + 8 = 128$

15) $10r^2 + 4 = 944$

16) $4n^2 + 9 = 73$

17) $10k^2 + 4 = -140$

18) $3m^2 - 5 = 70$